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3. The cooling channel cover according to claim 1,
wherein slits that extend to the ring bottom are made in the outer
and inner shanks, said slits being non-uniformly distributed over
the circumference of the ring, in order to produce a plurality of
shanks having different ridge lengths.

4. The cooling channel cover according to claim 3,
wherein the film hinge is arranged in a region between the slits.

5. The cooling channel cover according to claim 3,
wherein the slits have a width of 2 to 3 mm and the ridge lengths
between the slits are 15 to 20 mm.

6. The cooling channel cover according to claim 1,
wherein the first radial division having the mouth width forms a
cooling oil inlet or a cooling oil outlet for the cooling channel.

7. The cooling channel cover according to claim 1,
wherein the U-shaped ring is made of polyphenylene sulfide (PPS) or
a polyimide (PI).

8. A one-piece piston of an internal combustion
engine, comprising:

a piston crown;

a closed cooling channel that runs around inside
the piston crown, at a level of a piston ring band;

a piston shaft connected to the piston crown via

the piston crown and is angled off radially to the outside, with reference to a crosswise piston axis, and wherein the inner shank is arranged on an inside circumference of the piston head and is angled off radially to the inside.

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11. The cooling channel cover according to claim 10,
wherein slits that extend to the ring bottom are made in the outer and inner shanks, said slits being non-uniformly distributed over the circumference of the ring, in order to produce a plurality of shanks having different ridge lengths.

12. The cooling channel cover according to claim 11,
wherein the film hinge is arranged in a region between the slits.

13. The cooling channel cover according to claim 11,
wherein the slits have a width of 2 to 3 mm and the ridge lengths between the slits are 15 to 20 mm.

14. The cooling channel cover according to claim 8,
wherein the first radial division having the mouth width forms a cooling oil inlet or a cooling oil outlet for the cooling channel.

15. The cooling channel cover according to claim 8,
wherein the U-shaped ring is made of polyphenylene sulfide (PPS) or a polyimide (PI) ^{Carbon} or ^{Spring} steel.

or carbon spring steel m m